

Application No.: 10/817439

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AMENDMENTS TO THE CLAIMS

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Original) An adhesive tape assembly comprising:
 - a double-sided adhesive tape comprising:
 - a front adhesive side comprising a heat-activated adhesive layer, and
 - a back adhesive side comprising a pressure-sensitive adhesive layer; and
 - a release liner comprising:
 - a front liner side comprising a release layer in contact with, bonded to and removable from said pressure-sensitive adhesive layer, and
 - a back liner side comprising a roll stability layer which contacts said heat-activated adhesive layer when said adhesive tape assembly is formed into a roll, said roll stability layer comprising an ethylene vinyl acetate.
2. (Original) The adhesive tape assembly as set forth in claim 1, wherein said heat-activated adhesive layer has a contact surface which contacts said roll stability layer when said adhesive tape assembly is formed into a roll, and said contact surface has a smooth finish.
3. (Original) The adhesive tape assembly as set forth in claim 2, wherein said contact surface has an average surface roughness of up to about 26 microinches (0.00066 mm).
4. (Original) The adhesive tape assembly as set forth in claim 1, wherein said heat-activated adhesive layer comprises an olefinic material.
5. (Original) The adhesive tape assembly as set forth in claim 1, wherein said heat-activated adhesive layer comprises at least one of polyethylene and polypropylene.

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6. (Original) The adhesive tape assembly as set forth in claim 1, wherein said pressure-sensitive adhesive layer comprises an acrylic foam pressure-sensitive adhesive.
7. (Original) The adhesive tape assembly as set forth in claim 1, wherein said release layer comprises at least one of a medium density polyethylene, a low density polyethylene, a linear low density polyethylene and an ultra-low density polyethylene.
8. (Original) The adhesive tape assembly as set forth in claim 7, wherein said release liner further comprises an intermediate layer disposed between said release layer and said roll stability layer, said intermediate layer comprising a high density polyethylene.
9. (Original) The adhesive tape assembly as set forth in claim 1, wherein said release layer has a contact surface, in contact with said pressure-sensitive adhesive layer, which is coated with a release material.
10. (Original) The adhesive tape assembly as set forth in claim 1, wherein said ethylene vinyl acetate has a sufficiently low content of vinyl acetate that said roll stability layer does not block with said heat activated adhesive layer.
11. (Original) The adhesive tape assembly as set forth in claim 1, wherein said roll stability layer comprises an ethylene vinyl acetate having a vinyl acetate content of less than about 28% by weight.
12. (Original) The adhesive tape assembly as set forth in claim 1, wherein said roll stability layer comprises an ethylene vinyl acetate having a vinyl acetate content of about 5% to about 24% by weight.
13. (Original) The adhesive tape assembly as set forth in claim 1, wherein said roll stability layer comprises an ethylene vinyl acetate having a vinyl acetate content of about 8% to about 20% by weight.

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14. (Original) The adhesive tape assembly as set forth in claim 1, wherein said roll stability layer comprises an ethylene vinyl acetate having a vinyl acetate content of about 12% by weight.

15. (Original) An adhesive tape assembly comprising:

a double-sided adhesive tape comprising:

a front adhesive side comprising a heat-activated adhesive layer, and

a back adhesive side comprising a pressure-sensitive adhesive layer; and

a release liner comprising:

a front liner side comprising a release layer in contact with, bonded to and removable from said pressure-sensitive adhesive layer, and

a back liner side comprising a roll stability layer which contacts said heat-activated adhesive layer when said adhesive tape assembly is formed into a roll, said roll stability layer comprising an ethylene vinyl acetate,

wherein said roll stability layer further comprises an anti-blocking agent in an amount so that a coefficient of friction of said roll stability layer, when measured against said heat-activated adhesive layer, remains substantially constant.

16. (Original) The adhesive tape assembly as set forth in claim 15, wherein said roll stability layer comprises up to about 5% by weight of an anti-blocking agent based on the amount of ethylene vinyl acetate present.

17. (Original) The adhesive tape assembly as set forth in claim 1, wherein said roll stability layer has a coefficient of friction greater than about 0.4, when measured against said heat-activated adhesive layer.

18. (Original) The adhesive tape assembly as set forth in claim 1, wherein said roll stability layer has a coefficient of friction of greater than about 0.5, when measured against said heat-activated adhesive layer.

19. (Original) The adhesive tape assembly as set forth in claim 1, wherein said roll stability layer has a coefficient of friction of a least about 0.55, when measured against said heat-activated

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adhesive layer.

20. (Original) The adhesive tape assembly as set forth in claim 1, wherein said adhesive tape assembly has a width and is wound into a roll, with said roll stability layer contacting said heat-activated adhesive layer, and said roll has an outer circumferential edge, a diameter that is at least about 20 times said width and does not fall apart when held suspended along said outer circumferential edge.

21. (Currently Amended) An adhesive tape assembly in the form of a roll, comprising:

a double-sided adhesive tape comprising:

a front adhesive side comprising a heat-activated adhesive layer of a polyolefin heat-activated adhesive, and

a back adhesive side comprising a pressure-sensitive adhesive layer of a pressure-sensitive adhesive; and

a release liner comprising:

a front liner side comprising a release layer in contact with, bonded to and removable from said pressure-sensitive adhesive layer, and

a back liner side comprising a roll stability layer which contacts said heat-activated adhesive layer, said roll stability layer having a contact surface which has a coefficient of friction, when measured against said heat-activated adhesive layer, which provides an increase in roll stability to said adhesive tape assembly when formed into a roll,

said roll having, a width, an outer circumferential edge, and a diameter that is at least about 20 times said width, wherein said roll ~~and~~ does not fall apart when held suspended along said outer circumferential edge.

22. (Currently Amended) A release liner in combination with a double-sided adhesive tape, said release liner comprising:

a front liner side comprising a release layer having a first exposed contact surface bondable to and removable from a pressure sensitive adhesive layer of said double-sided adhesive tape, said release layer comprising a polyolefin homopolymer; and

a back liner side comprising a roll stability layer having a second exposed contact

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surface for contacting a heat activated adhesive layer of said double-sided adhesive tape when said double-sided adhesive tape is in roll form, said roll stability layer comprising an ethylene vinyl acetate.

23. (Original) The release liner as set forth in claim 22, wherein said release layer comprises a polyethylene having a density of up to about 0.92 g/cc.

24. (Original) The release liner as set forth in claim 22, wherein said release liner further comprises an intermediate layer disposed between said release layer and said roll stability layer, said intermediate layer having a higher density than said release layer.

25. (Original) The release liner as set forth in claim 22, wherein said roll stability layer comprises an ethylene vinyl acetate having a vinyl acetate content of less than about 28% by weight.

26. (Original) The release liner as set forth in claim 22, wherein said roll stability layer comprises an ethylene vinyl acetate having a vinyl acetate content of about 5% to about 24% by weight.

27. (Original) The release liner as set forth in claim 22, wherein said roll stability layer comprises an ethylene vinyl acetate having a vinyl acetate content in the range of about 8% to about 20% by weight.

28. (Original) The release liner as set forth in claim 22, wherein said roll stability layer comprises an ethylene vinyl acetate having a vinyl acetate content of about 12% by weight.

29. (Original) A release liner comprising:

a front liner side comprising a release layer having a first exposed contact surface bondable to and removable from a pressure sensitive adhesive layer; and

a back liner side comprising a roll stability layer having a second exposed contact surface for contacting a heat activated adhesive layer, said roll stability layer comprising an

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ethylene vinyl acetate;

wherein said roll stability layer further comprises an anti-blocking agent in an amount so that a coefficient of friction of said roll stability layer, when measured against said heat-activated adhesive layer, remains substantially constant.

30. (Original) The release liner as set forth in claim 29, wherein said roll stability layer comprises up to about 5% by weight of an anti-blocking agent based on the amount of ethylene vinyl acetate present.

31. (Original) The adhesive tape assembly as set forth in claim 1, wherein said release layer comprising a polyethylene having a density of up to about 0.92 g/cc.

32. (Original) The adhesive tape assembly as set forth in claim 1, wherein said release layer comprising a polyolefin having a contact surface, in contact with said pressure-sensitive adhesive layer, wherein the contact surface is coated with a silicone or fluorocarbon release material.

33. (Original) The adhesive tape assembly as set forth in claim 21, wherein said release layer comprising a polyethylene having a density of up to about 0.92 g/cc.

34. (Original) The adhesive tape assembly as set forth in claim 21, wherein said release layer comprising a polyolefin having a contact surface, in contact with said pressure-sensitive adhesive layer, wherein the contact surface is coated with a silicone or fluorocarbon release material.

35. (Currently Amended) A release liner in combination with a double-sided adhesive tape, said release liner comprising:

a front liner side comprising a release layer having a first exposed contact surface bondable to and removable from a pressure sensitive adhesive layer of said double-sided adhesive tape, said release layer comprising a low density polyethylene, a linear low density polyethylene, or an ultra-low density polyethylene; and

a back liner side comprising a roll stability layer having a second exposed contact surface for contacting a heat activated adhesive layer of said double-sided adhesive tape when

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said double-sided adhesive tape is in roll form, said roll stability layer comprising an ethylene vinyl acetate.

36. (Original) The release liner as set forth in claim 35, wherein said roll stability layer comprises an ethylene vinyl acetate having a vinyl acetate content of about 5% to about 28% by weight.

37. (Original) The release liner as set forth in claim 36, wherein said roll stability layer comprises an ethylene vinyl acetate having a vinyl acetate content of about 12% by weight.

38. (Original) A release liner comprising:

a front liner side comprising a release layer having a first exposed contact surface bondable to and removable from a pressure sensitive adhesive layer, said release layer comprising a polyolefin coated with an outer layer of silicone or fluorocarbon release material; and

a back liner side comprising a roll stability layer having a second exposed contact surface for contacting a heat activated adhesive layer, said roll stability layer comprising an ethylene vinyl acetate.

39. (Original) The release liner as set forth in claim 38, wherein said roll stability layer comprises an ethylene vinyl acetate having a vinyl acetate content of about 5% to about 28% by weight.

40. (Original) An adhesive tape assembly comprising:

a double-sided adhesive tape comprising:

a front adhesive side comprising a heat-activated adhesive layer, and

a back adhesive side comprising a pressure-sensitive adhesive layer; and

a release liner comprising:

a front liner side comprising a release layer in contact with, bonded to and removable from said pressure-sensitive adhesive layer,

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wherein a roll stability layer comprising an ethylene vinyl acetate is in contact with said heat-activated adhesive layer when said adhesive tape assembly is formed into a roll.

41. (Original) The adhesive tape assembly as set forth in claim 40, wherein said heat-activated adhesive layer has a contact surface which contacts said roll stability layer when said adhesive tape assembly is formed into a roll, and said contact surface has a smooth finish.

42. (Original) The adhesive tape assembly as set forth in claim 41, wherein said contact surface has an average surface roughness of up to about 26 microinches (.00066 mm).

43. (Original) The adhesive tape assembly as set forth in claim 40, wherein said heat-activated adhesive layer comprises an olefinic material.

44. (Original) The adhesive tape assembly as set forth in claim 40, wherein said heat-activated adhesive layer comprises at least one of polyethylene and polypropylene.

45. (Original) The adhesive tape assembly as set forth in claim 40, wherein said ethylene vinyl acetate has a sufficiently low vinyl acetate content that said roll stability layer does not block with said heat activated adhesive layer.

46. (Original) The adhesive tape assembly as set forth in claim 40, wherein said roll stability layer further comprises an anti-blocking agent in an amount so that a coefficient of friction of said roll stability layer, when measured against said heat-activated adhesive layer, remains substantially constant.

47. (Currently Amended) A roll stable liner for use with a double-sided adhesive tape, said liner comprising:

a front liner side having a first exposed contact surface comprising a polyolefin homopolymer bondable to and removable from a pressure sensitive adhesive layer; and

a back liner side comprising a roll stability layer having a second exposed contact surface for contacting a heat activated adhesive layer, said roll stability layer comprising an

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ethylene vinyl acetate and up to about 5% by weight of an anti-blocking agent based on the amount of ethylene vinyl acetate present.

48. (Original) The liner as set forth in claim 47, wherein the polyolefin homopolymer of said first exposed contact surface comprises a polyethylene having a density of up to about 0.92 g/cc.

49. (Original) The liner as set forth in claim 47, wherein the polyolefin homopolymer of said first exposed contact surface comprises at least one of a medium density polyethylene, a low density polyethylene, a linear low density polyethylene, or an ultra-low density polyethylene.

50. (Original) The liner as set forth in claim 47 further comprising an intermediate layer disposed between said first exposed contact surface and said second exposed contact surface, said intermediate layer having a higher density than the polyolefin homopolymer of said first exposed contact surface.

51. (Original) The liner as set forth in claim 47, wherein said roll stability layer comprises an ethylene vinyl acetate having a vinyl acetate content of less than about 28% by weight.

52. (Original) The liner as set forth in claim 47, wherein said roll stability layer comprises an ethylene vinyl acetate having a vinyl acetate content of about 5% to about 24% by weight.

53. (Original) The liner as set forth in claim 47, wherein said roll stability layer comprises an ethylene vinyl acetate having a vinyl acetate content in the range of about 8% to about 20% by weight.

54. (Cancelled)

55. (New) The adhesive tape assembly as set forth in claim 21, wherein said pressure-sensitive adhesive layer comprises an acrylic pressure-sensitive adhesive, said heat-activated adhesive layer comprises an olefinic material, said release layer comprises at least one polyolefin, and said roll stability layer comprising an ethylene vinyl acetate.